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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/560,793	12/15/2005	Xiangsheng Meng	· CGL03/0043US01	7410	
46395 CARGILL IN	7590 08/02/2007 CORPORATED		EXAM	EXAMINER	
CARGILL, INCORPORATED LAW DEPARTMENT			KATAKAM,	KATAKAM, SUDHAKAR	
P. O. BOX 5624 MINNEAPOLIS, MN 55440-5624			ART UNIT	PAPER NUMBER	
		•	1621		
			MAIL DATE	DELIVERY MODE	
			08/02/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<u> </u>	Application No.	Applicant(s)				
	10/560,793	MENG ET AL.				
Office Action Summary	Examiner	Art Unit				
	Sudhakar Katakam	1621				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 11 ⊆ 2a)⊠ This action is <b>FINAL</b> . 2b)□ Thi 3)□ Since this application is in condition for allowed closed in accordance with the practice under	s action is non-final. ance except for formal matters, pro					
Disposition of Claims						
4) Claim(s) 1-17 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-17 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers  9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) accompany	er. cepted or b) objected to by the led drawing(s) be held in abeyance. See ction is required if the drawing(s) is objected to by the led to b	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)  1) \( \sum \) Notice of References Cited (PTO-892)	4) 🗖 Intonian Summer	(PTO 413)				
2) Notice of References Cited (PTO-892)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte				

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### **DETAILED ACTION**

## Status of the Application

1. Receipt of Applicant's Remarks and Arguments filed on 11<sup>th</sup> June 2007 is acknowledged. Applicants amended the claims 1, 4-5, 8, 11, 14, and 17. However, a new 112 rejection has been applied to the claims 1-17 because they contain the new matter. The claims 1-17 remain rejected and all claims are pending.

# Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claim 1-17 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The claim 1 recite a "lactam having 4 to 7 ring members and a hydrocarbon radical as a substituent on the nitrogen atom", but the specification does not appear to support for said compound. This is new matter.

The claim 4 recite "3-hydroxypropionic acid recovered is at least about 80% pure", but the specification does not appear to support for this matter. This is new matter.

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The claim 14 and 17 recite a "radical lactam", but the specification does not appear to support for said compound. This is new matter.

### Response to Arguments

4. Applicant's arguments filed on 11<sup>th</sup> June 2007 with respect to claims 1-17 have been considered but are moot in view of the new ground(s) of rejection.

The thrust of the applicants' arguments is that the prior art (GB 1,167,793) requires a radical lactam be used as a solvent for the separation of acrylic acid, and it does not teach or suggest the process of amended claims.

The examiner does not find this argument persuasive since the amended claims contain the lactam having 4 to 7 ring members and a hydrocarbon radical as a substituent on the nitrogen atom", but the specification does not appear to support for said compound. This is new matter. Therefore, the examiner does not consider these arguments.

### Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - 1. Determining the scope and contents of the prior art.

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2. Ascertaining the differences between the prior art and the claims at issue.

3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

- 7. Claims 1-17 are again rejected under 35 U.S.C. 103(a) as being unpatentable over **Badische Anilin- & Soda-Frabrik AG** (GB 1,167,793) for the reasons of record.
- 8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).
- 9. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

### Correspondence

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sudhakar Katakam whose telephone number is 571-272-9929. The examiner can normally be reached on M-F 8:30 AM - 5:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yvonne Eyler can be reached on 571-272-0871. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

S. Katakam

ELVIS Q. PRICE, PH.D. PRIMARY EXAMINER